

Names \_\_\_\_\_ Date \_\_\_\_\_

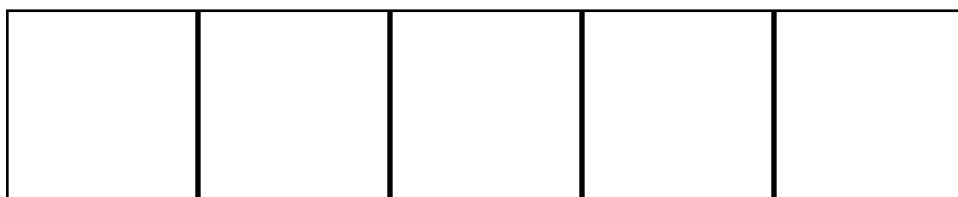
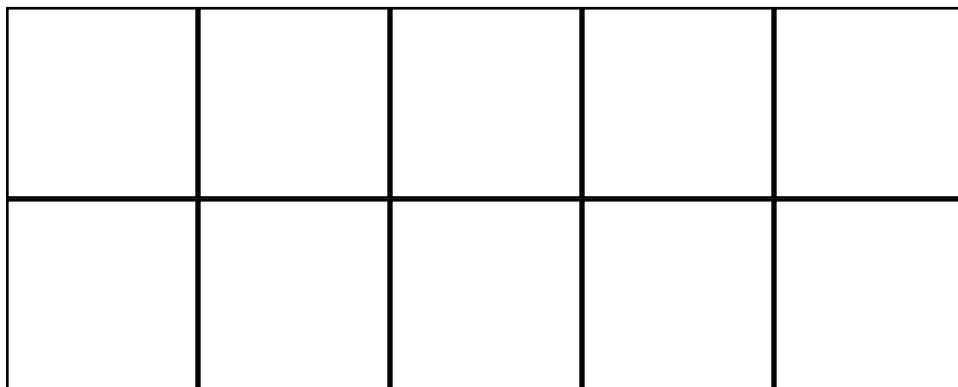
Here are the truffles that Muffles' assistant Patricio needs to package:

- 218 raspberry truffles
- 132 strawberry truffles
- 174 dark chocolate truffles
- 83 vanilla truffles with cinnamon and nutmeg
- 126 green truffles with pistachios
- 308 truffles with pecans and caramel
- 97 butterscotch crunch truffles covered in milk chocolate
- 22 truffles with white and dark chocolate swirls
- 44 chocolate-covered cherry truffles
- 46 almond and raisin truffles

**Questions to think about:**

- How many boxes does Patricio need for each flavor? How many leftovers of each kind will there be?
- Is there a shortcut way to know how many boxes of each kind he needs to pack and how many leftovers there will be for the assortment boxes?
- How many assortment boxes can he make?
- Muffles sells his fancy truffles for \$1.00 each so his boxes of truffles cost \$10 each. How much money will he collect if he sells them all?

Each of the problems used in the minilessons on Days Five and Six can be created from the templates below. Make multiple copies on transparency paper and cut them out.






## Appendix F

## Student recording sheet for the new boxes investigation

Names \_\_\_\_\_ Date \_\_\_\_\_

Number of $2 \times 5$ Arrays Used	Total Number of Squares	New Blueprints Built
2	20	$2 \times 10$ $4 \times 5$

**Directions for making box outlines:** Using graph paper with one-inch squares, cut out the following arrays:

$10 \times 10$	$12 \times 12$
$10 \times 12$	$9 \times 6$
$8 \times 7$	$7 \times 7$
$9 \times 7$	$8 \times 8$
$6 \times 7$	$9 \times 9$
$5 \times 6$	$4 \times 4$
$6 \times 6$	$9 \times 8$

Now, using these as patterns, trace around each array on blank paper and then make copies of the complete set. Make one complete set of the fourteen box outlines for each pair of students in your class.



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